

## Afon Cleifiog Bridge, Anglesey, U.K.

Contractor—Carillion/ Laing Joint Venture

Owner—U.K. Highways PLC

2000

As part of the A55 road improvement works, it was necessary to construct a section of road over a small river. In order to accomplish this, the river was diverted, to allow the construction of a concrete arch culvert and a **Fabriform** mattress lined channel. Once this construction was completed the in the dry the river was redirected back through the new culvert.



Culvert and Channel Construction

Side slopes of 45° were used along the channel due to limited space. It was necessary to stabilise these by using reinforced earth and a lean mix concrete blinding before mattress laying. Micro concrete was pumped into the mattress from ready mix deliveries.



Concrete Mattress Lining



Typical Cross Section

**proserve**  
MARINE CONSTRUCTION ENGINEERS

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### Fabriform

Through the new culvert channel **Fabriform** FP150 mattress was chosen to provide complete protection from river flow scour.